

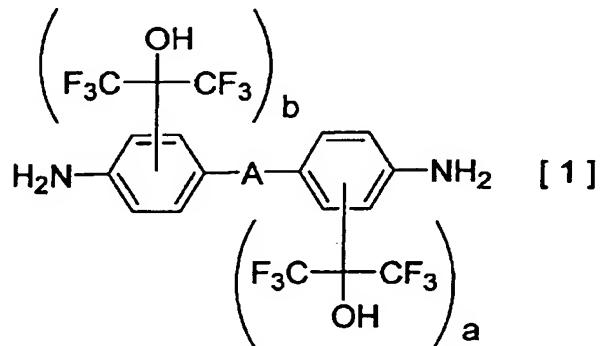
Amendments to the Claims:

The following listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1. (Currently Amended) A fluorine-containing polymerizable monomer represented by the formula [1],

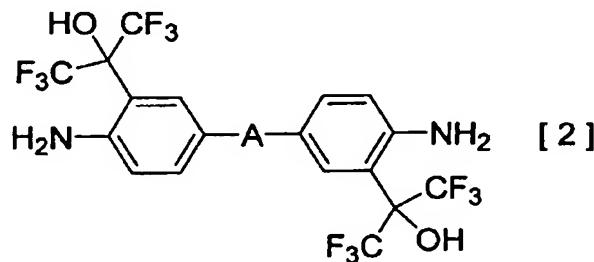
[Chem. 22]



wherein A represents a single bond, oxygen atom, sulfur atom, CO, CH₂, SO, SO₂, C(CH₃)₂, NHCO, C(CF₃)₂, phenyl, or aliphatic ring; each of "a" and "b" independently represents an integer of 0-2; and 1≤a+b≤4.

Claim 2. (Currently Amended) A fluorine-containing polymerizable monomer represented by the formula [2],

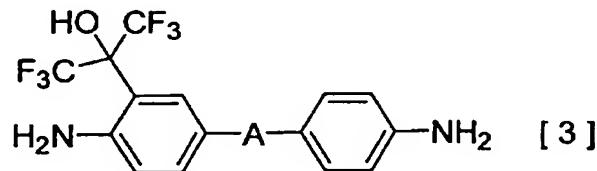
[Chem. 23]



wherein A represents a single bond, oxygen atom, sulfur atom, CO, CH₂, SO, SO₂, C(CH₃)₂, NHCO, C(CF₃)₂, phenyl, or aliphatic ring.

Claim 3. (Currently Amended) A fluorine-containing polymerizable monomer represented by the formula [3],

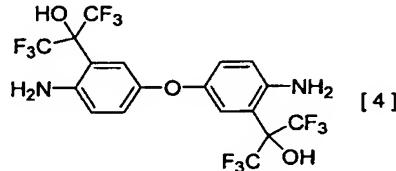
[Chem. 24]



wherein A represents a single bond, oxygen atom, sulfur atom, CO, CH₂, SO, SO₂, C(CH₃)₂, NHCO, C(CF₃)₂, phenyl, or aliphatic ring.

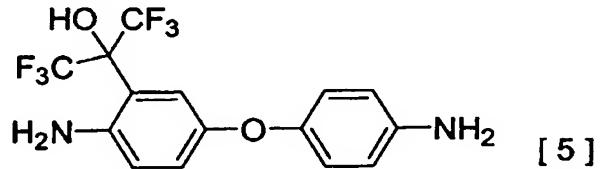
Claim 4. (Currently Amended) 3,3'-bis(1-hydroxy-1-trifluoromethyl-2,2,2-trifluoroethyl)-4,4'-oxydianiline represented by the formula [4].

[Chem. 25]



Claim 5. (Currently Amended) 3-(1-hydroxy-1-trifluoromethyl-2,2,2-trifluoroethyl)-4,4'-oxydianiline represented by the formula [5].

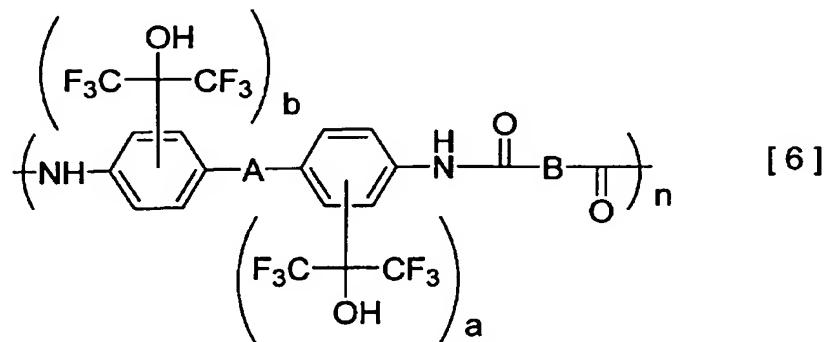
[Chem. 26]



Claim 6. (Currently Amended) A polymer compound obtained by a polymerization using a fluorine-containing polymerizable monomer according to ~~any one of claims 1-5~~ claim 1.

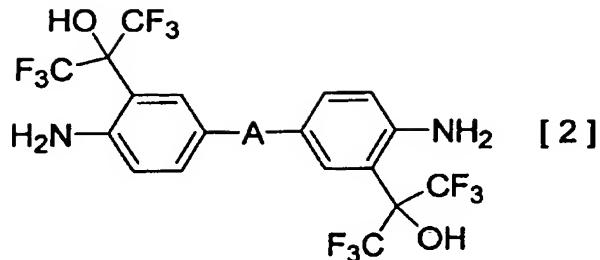
Claim 7. (Currently Amended) A polymer compound according to claim 6, which is represented by the formula [6],

[Chem. 27]



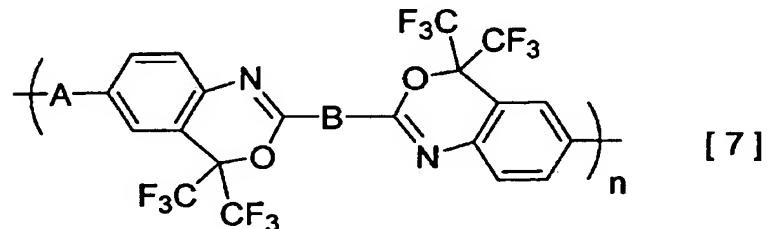
wherein "A", "a" and "b" are the same as those of the formula [1]; B is a bivalent organic group containing at least one selected from aliphatic rings, aromatic rings and alkylene groups; it may contain fluorine, chlorine, oxygen, sulfur or nitrogen, and its hydrogens may be partially replaced with alkyl group, fluoroalkyl group, carboxylic group, hydroxyl group or cyano group; and "n" represents degree of polymerization.

Claim 8. (Currently Amended) A polymer compound represented by the formula [7] ~~or [8]~~ that is obtained by subjecting a polymer compound according to claim 7, which is obtained by a polymerization using a monomer ~~according to claim 2 or 3~~ represented by the formula [2].



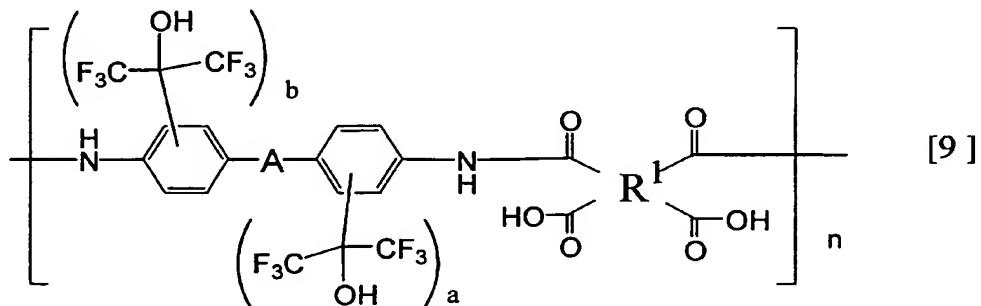
wherein A represents a single bond, oxygen atom, sulfur atom, CO, CH₂, SO, SO₂, C(CH₃)₂, NHCO, C(CF₃)₂, phenyl, or aliphatic ring, to a cyclization condensation,

[Chem. 28]



wherein A, B and n are the same as those of the formula [6].

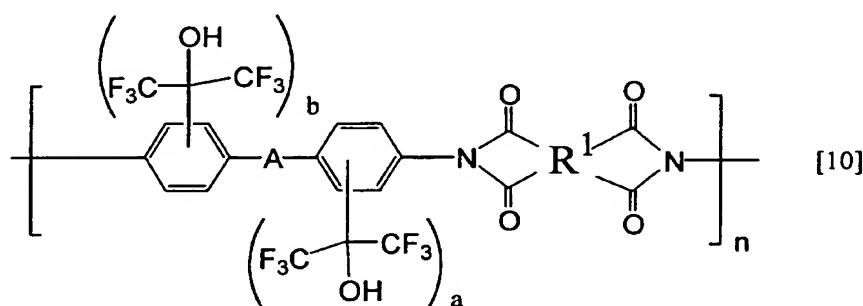
Claim 9. (Currently Amended) A polymer compound according to claim 6, which is obtained by a synthesis using a monomer according to the formula [1] and is represented by the formula [9],



wherein "A", "a" and "b" are the same as those of the formula [1] of claim 1; R¹ is a tetravalent organic group containing at least one selected from aliphatic rings, aromatic rings and alkylene groups; it may contain fluorine, chlorine, oxygen,

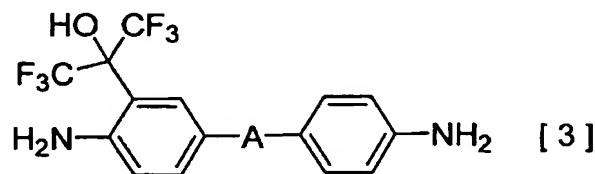
sulfur or nitrogen, and its hydrogens may be partially replaced with alkyl group, fluoroalkyl group, carboxylic group, hydroxyl group or cyano group; and "n" represents degree of polymerization.

Claim 10. (Currently Amended) A polymer compound that is obtained by subjecting a polymer compound according to the formula [9] of claim 9 to a cyclization condensation and is represented by the formula [10],
[Chem. 30]



wherein "A", "a" and "b" are the same as those of the formula [1]; R¹ is a tetravalent organic group containing at least one selected from aliphatic rings, aromatic rings and alkylene groups; it may contain fluorine, chlorine, oxygen, sulfur or nitrogen, and its hydrogens may be partially replaced with alkyl group, fluoroalkyl group, carboxylic group, hydroxyl group or cyano group; and "n" represents degree of polymerization.

Claim 11. (New) A polymer compound represented by the formula [8] that is obtained by subjecting a polymer compound according to claim 7, which is obtained by a polymerization using a monomer represented by the formula [3],



wherein A represents a single bond, oxygen atom, sulfur atom, CO, CH₂, SO, SO₂, C(CH₃)₂, NHCO, C(CF₃)₂, phenyl, or aliphatic ring, to a cyclization condensation,



wherein A, B and n are the same as those of the formula [6].